PHILIP MORRIS USA RESEARCH AND DEVELOPMENT DEPARTMENT

SWITZERLAND TEST #169

MR4-06RS ML4-06RS MR6-06RS MR8-06RS PM8-06RS

DISTRIBUTION

Mr. H.	Cullman	Mr.	₩.	G. Longest
Mr. R.	R. Haldimann			A. Lowman
Mr. M.	Hausermann (3)	Mr.	J.	von Wyss

R.A. Fenny
Vickla-
Sentember 1 1076

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Marlboro Long Size 20's (Box) - Switzerland
Marlboro Lights Long Size 20's (Box) - Switzerland
Marlboro King Size 20's (Soft Pack) - Switzerland
Marlboro 100 20's (Soft Pack) - Switzerland
Philip Morris Multifilter 100 20's (Soft Pack) Switzerland

The Marlboro long size cigarettes were not different from the previous average in any of the characteristics tested.

The Marlboro Lights long size cigarettes were not different from the previous average in any of the characteristics tested.

The Marlboro king size cigarettes were not different from the previous average in any of the characteristics tested.

The Marlboro 100 cigarettes were different from the previous average only in dilution.

The Philip Morris Multifilter 100 cigarettes were different from the previous average in tar, TPM and nicotine.

	SMITZERLAND TEST #169						Page 1	
	Marthoro Long Size 20's (Box)			Marlboro Lights Long Size 20's (Box)		Mariboro King Size 20's (Soft Pack)		
	Current	Prev.	U.S.2	Current	Prev.	Current	Prov.	<u>u.s.²</u>
Snoke			•					
But tength, mm FFC Tar, mg/cigt. IPM, mg/cigt. Nicotine, mg/cigt. Water, mg/cigt. Puffs/cigt. Filtration Eff., 1	25 17.4 21.3 1.04 2.9 8.0	25 17.6 22.4 1.t3 3.7 8.3	26 17.6 21.9 1.05 3.2 8.2 47	27 11.3 13.9 0.86 1.7 9.0 52	27 11.6 14.0 0.87 1.5 9.2 53	27 16.9 20.8 1.08 2.8 8.4 47	27 17.7 22.0 1.14 3.2 8.7	28 17.9 22.2 1.07 3.2 8.7 48
Cigarette								
Total RTD, in. of H ₂ 0 mm of H ₂ 0 Static Burn, Time, win.	4,1 104 7,7 79,5	4.1 104 7.7 79.3	4.6 117 7.7 79.6	4.7 119 7.6 79.6	4.8 122 7.6 79.6	4.3 109 7.5 84.4	4.3 109 7.5 84.5	4.8 122 7.7 84.5
Length, mm Circumference, mm	25.1	25.1	24.9	25.I	25.1	25.0	25.1	25.0
Diameter, mm	8.0	8.0	7.9	8.0	8.0	8.0	4.0	4 ,0
Paper						•		
Porosity, sec.	11	12	21	10	11	12	13	20
Filter								
RID, in. of H ₂ O mm of H ₂ O Length, mm Merght, g Tipping paper length, mm Dilution, b	2.8 71 17.9 0.13 22	2.6 66 18.0 0.13 22	2.8 71 19.0 0.14 23	3.6 91 19.9 0.15 24 24	3.6 91 20.0 0.15 24 22	2.9 74 19.9 0.14 24	2.7 69 20.0 0.14 24	2.9 74 21.0 0.15 25
Filler								
Total alkaloids, 4 Total reducing sugars, 1 Wt. of tob., 1,000 cigts., g 1,000 cigts., lbs. Rod Bensity, g/cc	1.52 6.9 789 1.7374 0.256	1.55 7.3 791 1.7429 0.259	1,49 6,6 730 1,6076 0,245	1,52 7,4 851 1,8298 0,278	1.52 5.3 834 1.8369	1,51 6,5 525 1,\$166 0,257	1.56 7.43 829 1.8254 0.256	1.49 6.9 770 1.6956 0.246
*C.V., cc/30 g	32	30	. 35	32	29	30	30	36
c.V., cc/10 g (Corrected to 121 O.V.) Oven Volatiles, t	3B 14.0	37 14,4	39 13.7	38 14.1	36 14.7	38 14.4	37 14.2	39 13.4

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¹Equilibrated at 75°F and 60% R.H. for 48 hrs.

²Data from C.I. No. 8-76.

³Results of Test #164, dated March 9, 1976, where a change was noted.

	Marlhoro 100 20°s (Soft Pack)			Philip Morris Multifilter 100 20's (Soft Pack)		
	Current	Prev. Avg.	<u>u.s.</u> ²	Current	Ave.	
Smoke Butt tength, was Fit lar, mg/cigt, TPM, mg/cigt. Nicotine, mg/cigt. Mater, mg/cigt.	33 17.1 20.5 1.18 2.2 9.6	33 17,2 20,5 1,24 2,1 10,2	34 17.1 20.6 1.08 2.3 9.2	33 15.6 18.2 1.00 1.0	33 14.2 16.6 6.88 1.5 9.6	
Pufis/cigt. Filtration bff., 1	48	40	46	5.3	49	
Cigarette Total RTD, in, of H20 mm of H20 Static Burn. Time, min. Length, mm Circumference, mm Blameter, mm	4.2 107 7.2 98.9 24.6 7.8	4.1 104 6.8 99.1 24.6 7.8	4.9 125 6.8 99.4 24.8 7.9	5.6 142 7.4 99.1 24.6 7.8	5.4 137 6.8 99.1 24.7 7.9	
Porosity, sec.	12	12	13	29	31	
Filter klb. in. of H20 mm of H20 lnner, in. of H20 mm of H20 mm of H20 commod H20 c	25.9	25.0	2.9 74 	3.1 79 1.6 41 1.5 38 25.2 12.7 0.17 0.08 75 38	3.0 70 1.5 41 1.5 41 25.2 12.7 12.5 0.17 0.08 77	
Filler Total alkaloids, 1 Total reducing sugars, 1 Mt. of tob., 1,000 cigts., g 1,000 cigts., lbs. Rod Density, g/cc 1C.V., cc/10 g C.V., cc/10 g (Corrected to 121 Core Volatiles, 1	1.52 7.2 923 2.0322 0.259 31 0.V.) 38 14.4	1.50 7.5 931 2.0504 0.201 31 37	1.52 6.7 850 1.8716 0.242 36 39 13.7	1.20 8.7 940 2.0096 0.204 37 39	1.14 9.8 938 2.0647 0.261 37 40	

¹Equilibrated at 75°t and 601 R.H. for 48 hrs. ²Data from C.1. No. 8-76.

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